

800200

medifa 8000



Translation of the user manual

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1 Important information

1.1 Revision history

Version	Date	Reason for change to the publication
1.0	07/2018	First edition
2.0	11/2019	Complete revision, new cover pictures
3.0	04/2020	Main switch, mains plug
3.1	07/2020	Mains plug, pull-out protection top
4.0	08/2021	Complete revision

1.2 CE marking

This product is a Class 1 medical device as defined by European regulation (EU) 2017/745 concerning medical devices. It complies with the version of this regulation in force at the time that this product is placed on the market.

1.3 Conformity

The manufacturer declares that this product conforms with the essential safety and performance requirements according to MDR Annex I. The manufacturer also declares that the technical documentation has been implemented according to MDR Annex II. The manufacturer declares conformity by means of an EU Declaration of Conformity according to MDR Annex IV.

1.4 Manufacturer and distributor

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1.5 Copyright notice

These operating instructions and all drawings are subject to copyright. The reproduction and duplication of this document as well as the usage and communication of its contents, are not permitted unless explicitly stated. Violators shall be liable to pay for damages. All rights are reserved in the event that a patent is granted or utility prototype registered.

We are constantly working on the further development and design of our products.

Please understand that we reserve the right to change the scope of delivery in terms of form, configuration and technology at any time.

Reproduction, duplication or translation of the original operating instructions, in whole or in part, is not permitted without the written permission of medifa!

All rights under the copyright law are expressly reserved for medifa.

medifa is only responsible for the safety characteristics within the scope of the statutory regulations if all maintenance, servicing and changes to this device have been carried out by the user or a representative as instructed.

2 Foreword

We at medifa thank you for purchasing the medifa 8000 X-ray OP table. The medifa 8000 is an X-ray OP table that combines design, functionality and comfort with the highest quality associated with German manufacturing.

The medifa products are manufactured to have a long and trouble-free lifespan. The development, design and production at medifa have been certified to comply with DIN EN ISO 9001 and DIN EN ISO 13485. These products comply with the requirements of the EU Medical Device Regulation (MDR) and bear the CE mark.

The medifa 8000 has an ergonomically shaped table plate made of high-quality carbon that is continuously transparent to X-rays. Its shape enables a maximum of X-ray transparency with the smallest radiation dose. Complete 360-degree X-ray transparency is made possible by the circumferential carbon guide rails.

The surface that the patient lies on can be shifted both vertically and horizontally. It can be controlled using an intuitive joystick as well as the function keys on the control panel and the column keypad. You can also take advantage of the memory feature. Up to three table positions can be stored and moved to using a single keystroke.

The demanding requirements of the OP(surgical) sector can only be met by high-quality long-life materials, comprehensive functionality and ease of use.


Medifa offers a complete line of accessories to meet your requirements. The periodic maintenance carried out by our trained service technicians ensures that your X-ray OP table is always in perfect working order during routine operations.

We are always available to help if you have any questions.

3 Understanding these operating instructions

ATTENTION

Please read and observe these operating instructions.

These operating instructions must be read and fully understood by the operating personnel before the initial commissioning of the medifa 8000. This applies in particular to the  **Safety instructions and user obligations, Page 13** chapter. If necessary, in-house training for technical qualifications may be carried out by a qualified person.

The operating instructions must be closely followed and available at the place of use.

ATTENTION

It is safe to use the X-ray OP table!

Any remaining residual hazards are indicated at the affected locations in the operating instructions. Follow these instructions!

3.1 Where can I find certain information?

The individual chapters of the operating instructions contain information on specific topics.

Chapter	Content / topics
1 Important information	<ul style="list-style-type: none"> Manufacturer's instructions
2 Foreword	<ul style="list-style-type: none"> Brief description of your medifa 8000
3 Understanding these operating instructions	<ul style="list-style-type: none"> Symbols and conventions these operating instructions
4 Safety instructions and user obligations	<ul style="list-style-type: none"> Basic safety instructions for the operation and use of the medifa 8000
5 medifa 8000	<ul style="list-style-type: none"> Description of the medifa 8000 and its components
6 User controls	<ul style="list-style-type: none"> Description of the functions of the infra-red handset, column keypad, control panel, joystick and foot switch (optional components)
7 Switching the medifa 8000 on and off	<ul style="list-style-type: none"> Switching the power supply on/off; switching the control unit on/off
8 Charging the medifa 8000	<ul style="list-style-type: none"> Charging the lead-gel batteries for battery-run operations
9 Transporting patients	<ul style="list-style-type: none"> Moving and controlling the medifa 8000 by hand

Chapter	Content / topics
10 Braking and releasing the brakes on the medifa 8000	<ul style="list-style-type: none"> Braking the medifa 8000 or releasing the brakes for driving
11 Positioning the patient	<ul style="list-style-type: none"> Description of all functions for patient positioning and position adjustment
12 Configuring the medifa 8000	<ul style="list-style-type: none"> Attaching and removing accessories and cushions
13 Preparing the medifa 8000 after it has been used	<ul style="list-style-type: none"> Cleaning and maintenance after usage
14 Troubleshooting and service – the We Care Code	<ul style="list-style-type: none"> Description of the We Care Code app for troubleshooting and service
15 Technical specifications	<ul style="list-style-type: none"> Characteristics of the medifa 8000 and conditions of usage
16 Appendix	<ul style="list-style-type: none"> Information on installing, decommissioning and disposing the medifa 8000 Accessories

Safety instructions in the chapters and steps

Notices about residual hazards and dangerous situations. Please pay particular attention to these notices.

3.2 List of abbreviations

Abbreviation	Description
CE	European Community (from the French "Communauté Européenne")
CDIL	Continuous duty with intermittent load
DIN	German Institute for Standardization
EN	European Standard
EMC	Electro-Magnetic Compatibility
EEC	European Economic Community
HF	High Frequency
IEC	International Electrotechnical Commission
IP	Ingress Protection
ISO	International Organization for Standardization
LED	Light Emitting Diode
MDR	Medical Device Regulation
OP	Operations (surgery)

3.3 Symbols in use

These operating instructions use various warning, notice and safety symbols to highlight information of particular relevance.

Safety instructions

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

ATTENTION


Notice about a harmful situation; possible consequences: the device itself or surrounding objects could be damaged.

Notices



Useful further information is indicated by this symbol.

Cross-references

Cross-references in the text are displayed in a different text colour and offset by a symbol:  **Positioning the patient, Page 59**

Work instructions

1. Work instructions and steps are chronologically displayed using numbered steps.

4 Safety instructions and user obligations

Keep these operating instructions close to the product so that the information can be accessed later! These operating instructions are an integral part of the product and must be transferred when the location or personnel changes.

These operating instructions must also be easily accessible to all users of the product at all times.



Notice to users and/or patients

All serious incidents relating to this product must be reported to the manufacturer and to the relevant authority of the nation in which the user and/or patient is established.

4.1 General safety instructions



WARNING

Danger for the patient!

Do not change this medical product! The manufacturer assumes no liability resulting from changes that have been made to the X-ray OP table.





WARNING

Danger for the patient!

We cannot completely rule out the possibility of a malfunction of the medifa 8000 according to current state of the art technology. In this rare case, the motor-driven functions would no longer be available during the surgery.

If there is an electrical malfunction, it is possible to change the patient's position using suitable aids (e.g. by placing cushions under the patient) or by extricating the patient from the medifa 8000.

- All work with or on the medifa 8000 (installation, commissioning, operation, maintenance, decommissioning, transport or disposal) may only be carried out by trained medical or nursing staff.
- The medifa 8000 may only be used with the specified products for the purposes specified in the  **Proper and intended usage, Page 17** section. The values specified in  **Technical specifications, Page 82** must be complied with whenever the medifa 8000 is being used.
- In order to use additional equipment properly and safely, the operating instructions for such equipment must be observed.

4.2 Steps to take before each use in the OP

All electrical and mechanical functions as well as all parts of the medifa 8000 (including accessories) must be checked for proper functionality and integrity before each use! Do not use defective or damaged products!

4.3 Risk of explosion

There is a risk of explosion if the medifa 8000 is used under one or more of the following conditions: The following operating situations must absolutely be avoided within the AP-M zone:

- Operating under mains or battery power while in an oxygen-enriched room.
- Using the mains power supply in rooms that are enriched with anaesthetics.
- If operating from the mains power supply: The user or other person should unplug the power cord when using the table in a room with oxygen-enriched air.

Definition of a hazardous explosive area (AP-M zone)

The AP-M zone is the medical zone shown in red in the following figure.

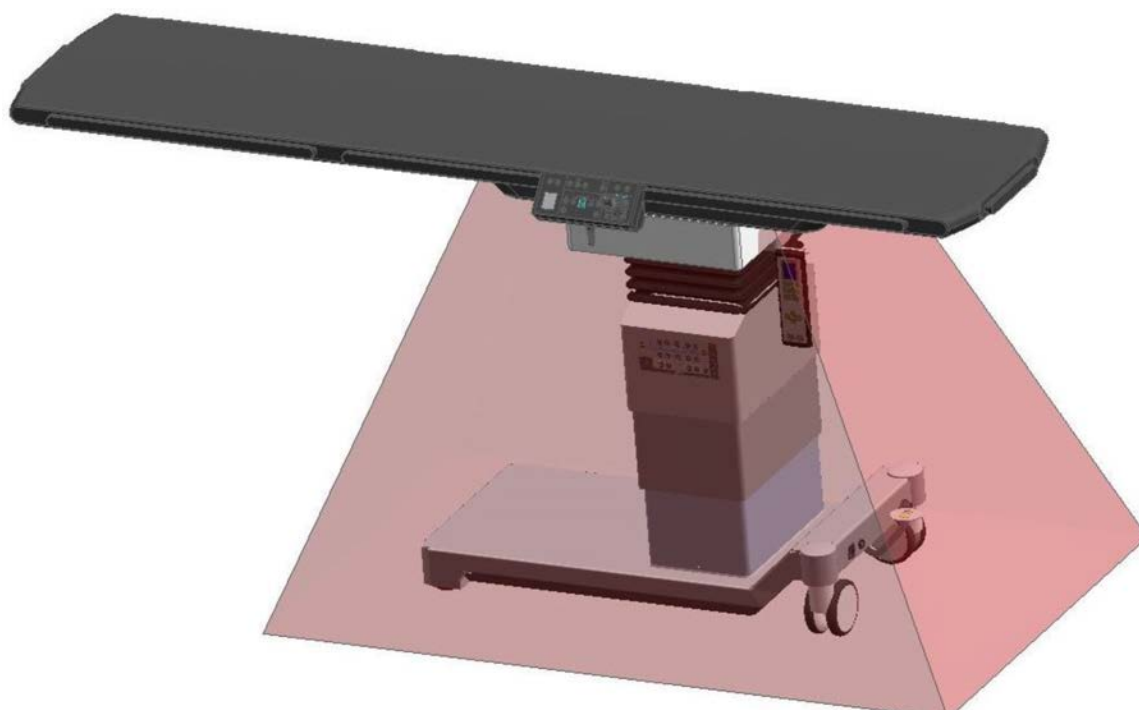



Figure 1: Hazardous explosive area, AP-M zone



Technical specifications and further information on explosion protection can be found under  **Classification, Page 83.**

4.4 Electricity

The electrical safety of the medifa 8000 and your power supply should be checked before first usage and regularly thereafter by a qualified electrician. We recommend that a general safety inspection be carried out yearly by medifa's technical support.

- Do not crush or run over mains power cables or equipotential bonding cables. Do not use cables which have been damaged.
- Remove the cables before changing the location of the table.
- Electrical discharges to the patient or operator may occur if there is no earthing/grounding present. If you have any doubts about the safety of the mains power cables or equipotential bonding cables, Use only the internal power supply until the problematic cable has been replaced.
- Only use the medifa 8000 on an electrically conductive floor and with an equipotential bonding cable connected.

4.5 Infection control

- Follow all regulations for cleaning and disinfection!
- Follow the cleaning and disinfection procedures described in these operating instructions! Use only the specified cleaning agents!
- Only cleaned and disinfected devices and equipment may be transferred to a service technician or the manufacturer for maintenance and repair work!
- Replace any cushioning that no longer complies with the relevant hygiene and infection requirements!

4.6 High frequency (HF) surgery equipment and defibrillators

The medifa 8000 may be used with HF surgical devices, defibrillators and defibrillator monitors. Observe the operating instructions and safety instructions from the manufacturers of these devices!



DANGER

Danger of patients being burned

The use of HF surgery equipment, defibrillators, and defibrillator monitors may pose a risk of the patient being burned if no safety precautions are taken. Take the following security precautions:

- Position the patient on the medifa 8000 so that they are isolated from (not touching) the metal parts (medifa 8000 or accessories), conductive cushions or hoses.
- Do not touch the patient with moistened wipes or other moist materials. Use only dry materials!



WARNING

Danger for the patient!

The electro-motor functions of the medifa 8000 may be interrupted while high-frequency surgery devices are being used.

4.7 Product lifespan

The medifa 8000 has a lifespan of 10 years if the specified inspections are carried out by medifa service technicians.

This does not apply to all wearing parts such as drives, controls, padded cushions or keys on the control units. It also does not apply to separate components such as the infra-red handset, control panel, foot switch or joystick.

4.8 Maintenance and repair

To avoid malfunctions and to ensure operational safety (e.g. for lengthwise adjustments), annual maintenance (electrical wiring, worn bearings, etc.) must be carried out to ensure that all functionality is fully retained. We recommend that a medifa-certified service technician carry out this service work.

Repairs

Repairs may only be carried out by the medifa technical support or by personnel who have been authorized, trained and certified by medifa.

The company medifa is not liable for any damages due to neglected inspections, inadequate repair, improper maintenance or changes made to the product!

For servicing work, please contact the medifa technical support department.

Telephone number of the medifa service hotline: +49 2721 7177 410

5 medifa 8000

5.1 Proper and intended usage

The products described here are intended only for human medical purposes!

The 800200 X-ray OP table, together with the other accessories from medifa, is intended only for the following uses:

- For supporting patients from the initiation of anaesthesia, during the operation, and until the end of anaesthesia.
- For transporting patients on the X-ray OP table from a transfer facility to the operating room or from the operating room to the transfer facility (depending on the patient transport conditions).
- For supporting patients during X-rays.

The 800200 X-ray OP table is intended for the following indications:

- Cardiovascular surgery
- Vascular surgery
- Neuro-/spinal column surgery

No contra-indication is known.

Patients should be supported and positioned on the X-ray OP table according to general practice and training standards. The X-ray OP table must be covered with sterile material before use.

Transporting objects, equipment or materials on the X-ray OP table is prohibited. The X-ray OP table may only be used and operated responsibly and in a controlled manner by trained medical and nursing staff.

The manufacturer or other persons authorized by the manufacturer shall carry out the training for the operating and care personnel.

These operating instructions must be followed in order to ensure proper and intended usage of the X-ray OP table! Any other usage of the X-ray OP table is considered improper! The supplier/manufacturer is not liable for personal injury or property damage as a result of improper operations or usage.

Only those accessories listed in the appendix should be used with the X-ray OP table. For safety reasons, you should not use unlisted accessories.

5.2 Intended users

These operating instructions describe the tasks and responsibilities relevant to multiple user groups.

We have identified two groups of users among the healthcare professionals. Doctors, such as surgeons, orthopaedics and anaesthetists, as well as operating assistants and nursing staff. The third group of users consists of the cleaning staff and technicians.

All target groups shall be instructed by the operating company according to their field of activity, their training, and their professional experience on the device so that they can operate the device properly and as intended. Technicians may only have secondary information because there are separate instructions that specifically targets this audience.

5.3 medifa 8000 and components

The medifa 8000 X-ray OP table consists of a continuous carbon table plate. The control panel with joystick is located on the table top. An infra-red handset and a foot switch can also be configured to control the medifa 8000. The column keypad is built into the lifting column.

Model 800200

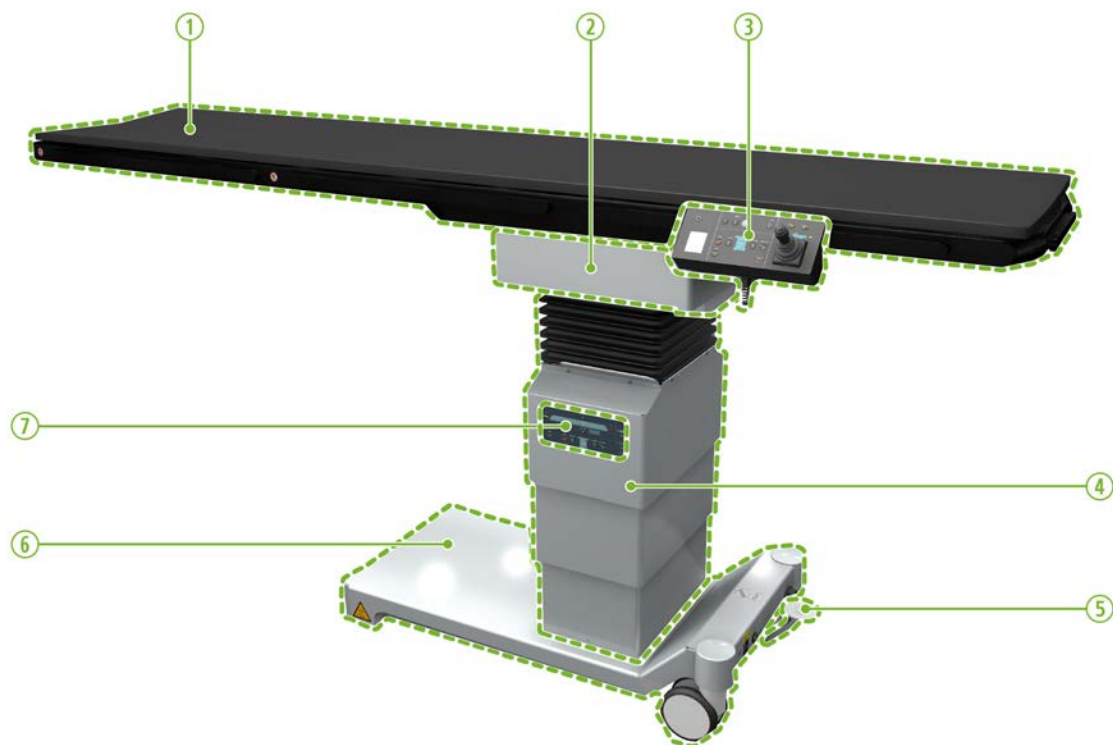


Figure 2: medifa 8000 (Model 800200)

- | | |
|---|---------------------|
| ① One-piece carbon table plate with built-in standard rails | ② Adjustable panels |
| ③ Control panel with joystick | ④ Lifting column |
| ⑤ Pedal for the central brake | ⑥ Base |
| ⑦ Column keypad | |

Features




- Control panel with colour display and built-in joystick
- Electrically conductive cushions (available in different thickness)
- Full carbon plate with built-in carbon standard guide rails for accessories
- Batteries and charger are built into table (with a capacity for approx. 1 week in normal operating mode).
- The control unit for electrical functions is on the lifting column (column keypad)
- Interface ports for the infra-red handset and foot switch
- Basic configuration: Visco-elastic comfort cushions with memory effect: 20 mm height, electrically conductive
- Option for reverse positioning of patient
- Height adjustable from 750 to 1110 mm
- Trendelenburg adjustment of max. +/- 25°
- Lateral adjustment of max. +/- 20°
- Automatic, simultaneous horizontal (home) position for the lying surface
- Maximum permissible total load: 250 kg
- Own weight: 250 kg
- Lying surface (L x W): 2335 x 500 mm
- Continuously radiolucent carbon table plate
- Front guide rail (EU/ EU) made only from carbon; for attaching the head-positioning segments
- Lengthwise adjustment of the table top: 300 mm
- Sideways adjustment of the table top: 180 mm
- Save and retrieve any three application functions (memory feature)
- Can be driven/moved, with central brake
- Mains power: 100 - 240 V / 50 - 60 Hz
- Battery capacity displays on control panel and column keypad

5.4 Warning stickers on the medifa 8000

Observe the warning symbols (stickers) on the medifa 8000; they indicate the danger points and hazards. All warning symbols on the product must be complete and legible. They must not be altered, removed or covered by other objects. Damaged or detached warning symbols must be replaced according to the specifications.



Figure 3: Warning stickers on the medifa 8000

Symbol	Description
	Patients may not climb onto or sit in this area of the table top.
	There is a risk of injury if the medifa 8000 is tilted The medifa 8000 may only be used on surfaces that have no more than a 5 degree tilt.
	Read the instructions before use.

5.5 Connections and symbols

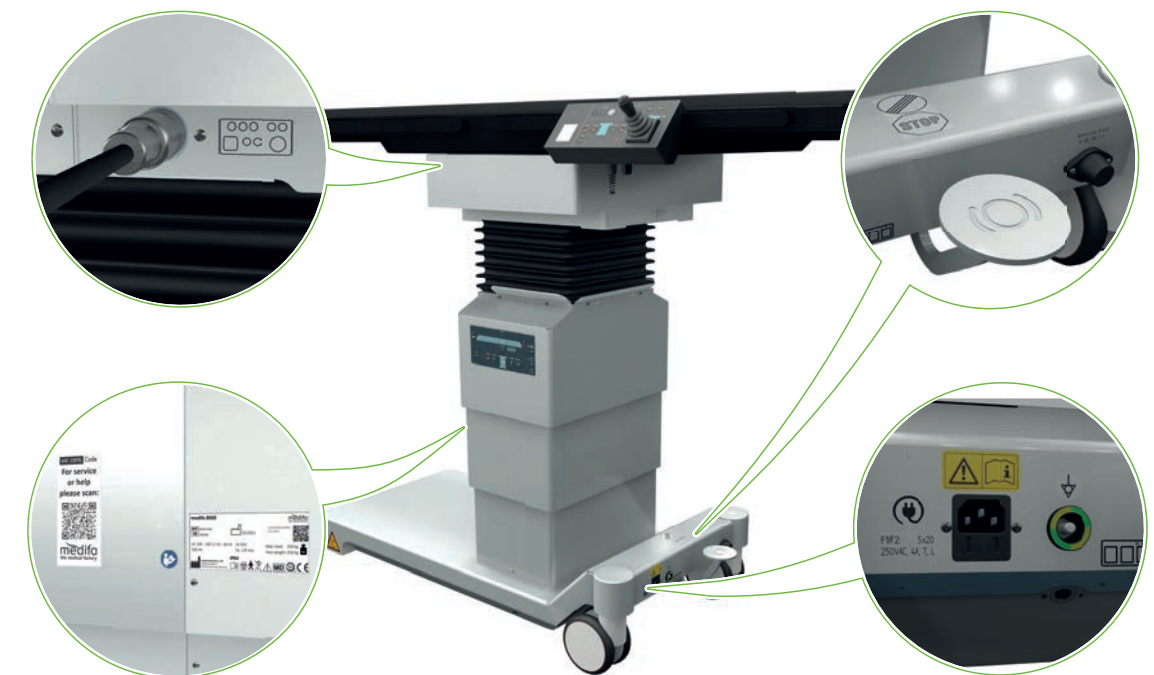
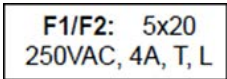
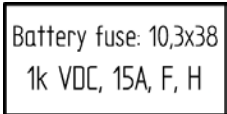





Figure 4: Symbols on the medifa 8000

Symbol	Location	Description
	Base	Connection port for the foot switch
	Lifting column	Connection port for the control panel
	Brake	Foot brake released / engaged
	Base	Connection for the equipotential bonding
	Base	Connection for the power cable

Symbol	Location	Description
	Base	Specifications for the mains fuse
	Battery fuse	Specification for the battery fuse
	Lifting column (next to ratings plate)	Follow the instructions!

5.6 Ratings plate

The ratings plate is located at the bottom of the lifting column of the medifa 8000.  **Connections and symbols, Page 21**


medifa 8000


REF


800200

SN


XXXXX


 05/2021

(01) 04250411XXXXXX
 (21) XXXXX



AC 100 - 240 V / 50 - 60 Hz 24 VDC
 300 VA int. 1/9 min

Max. load: 250 kg
 Tare weight: 250 kg 


medifa GmbH & Co. KG
 Industriestraße 5,
 57413 Finnentrop, Germany















IPX4









Figure 5: Ratings plate

Element / symbol	Description
	Manufacturer specifications and contact information
	Date of manufacture
	Article number
	Serial number

Element / symbol	Description
	Medical device
	Data matrix code
AC 100 – 240 V	Input voltage
24 V DC	Battery voltage
50 – 60 Hz	Frequency of the input voltage
int. 1/9 min	Intermittent operations: 1 min ON / 9 min OFF
	Specifications on empty weight and maximum load
Tare weight	Empty weight
Max. load	Maximum weight, including the accessories and the patient
IP X4	Protection degree against ingress of water
	AP-class device
	Protection degree against electric shock: Application part: Type B
	Observe the safety instructions found in the accompanying documents.
	Read the operating instructions.
	Follow the instructions for disposal
CE	This device is declared compliant with Regulation 2017/745

5.7 Table top

The carbon table top, which is permeable to X-rays, has standard rails along its entire perimeter that are used for attaching accessories and head support segments. Thus, the fully carbon table top features 360 degrees of X-ray transparency. The patient lying surface is 2335 x 500 mm. It can be widened on both sides by an additional 50 mm using the side extension segments. The table top can be shifted both lengthwise and sideways.

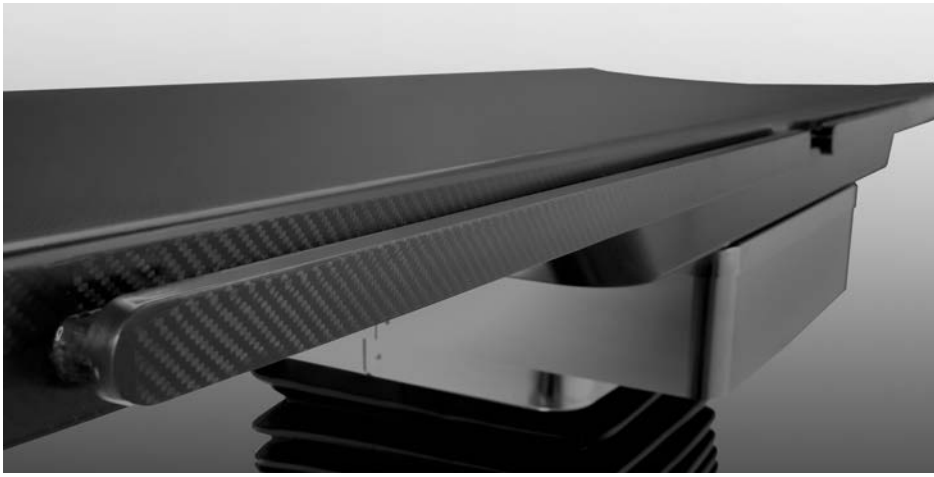


Figure 6: Table top

5.8 Lifting column

The lifting column includes:

- Column keypad
- Two infra-red receivers for the infra-red handset (optional)
- Connection port for the control panel
- Main switch of the medifa 8000

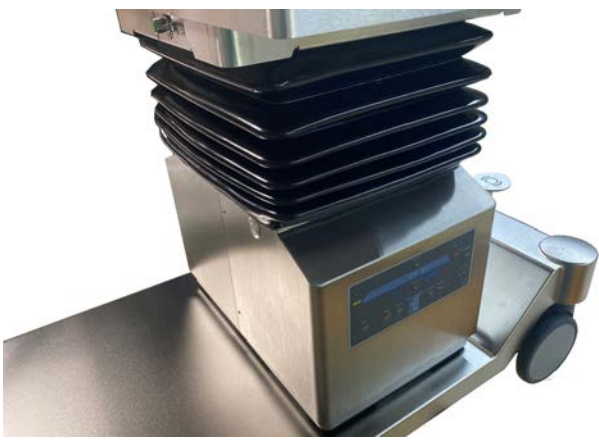


Figure 7: Lifting column with column keypad



Figure 8: Main switch



Figure 9: Connection port for the control panel



Figure 10: Head-end infra-red receiver for the infra-red handset (optional)



Figure 11: Foot-end infra-red receiver for the infra-red handset (optional)

5.9 Base

The base includes:

- Manual chassis with electrically conductive rollers
- Pedal for the central brake
- Connection sockets for the mains power cable, equipotential bonding cable and foot switch
- Fuse for the battery





Figure 12: Connection ports at the base

5.10 Chassis

The medifa 8000 has a chassis. The movements and handling of the medifa 8000 is regulated by two swivelling double castors. There are also two double fixed castors which support the directional movement. To prevent collisions, the user must steer the medifa 8000 manually. The medifa 8000 should be held on the side rails in order to steer it.

 [Transporting patients, Page 57](#)

5.11 Padded cushion

The padded cushion included in the delivery is 20 mm thick. It is made of visco-elastic foam covered by an electrically conductive fabric. There are two other optional cushions that have a 40 mm or 60 mm thick foam layer.

ATTENTION

Do not use this product if the surface of the cushions is damaged.

It is forbidden to use the medifa 8000 with unauthorized cushions; such usage would result in the loss of CE conformity.

The cushioning can be disinfected and washed. It is also transparent for X-rays. The padded cushion is latex-free, breathable and anti-static. The sonically welded seams (seamless and with no zipper) prevent the ingress of liquids and pathogens. This makes the padded cushion easy to clean.

Velcro fastening strips are used to attach the cushions to the medifa 8000.

The cushion prevents the patient from getting pressure sores. In order to eliminate any residual risk, medically trained personnel must implement an active decubitus prophylaxis method during the positioning of the patient. The cushion is anti-static and, when properly attached, complies with the relevant standard-base regulations.



Figure 13: Padded cushion

5.12 Standard-compliant rails

The 360 degree circumferential carbon rails, which are built into the carbon plate, are used to steer/move the table, and for attaching accessories.

WARNING

Danger: risk of personal injury when the medifa 8000 is tilted!


Regardless of the permissible load on the individual rails, a total torque of 50 Nm on the lengthwise axis and 80 Nm on the transverse axis of the medifa 8000 must not be exceeded during normal use!

If these load limits are exceeded, the table can tip over or the rail can break. The part of the patient's body that is resting on an accessory could then slip down, which could result in needles being pulled out.

5.12.1 Maximum permissible torques

The maximum permissible torque on a standard rail of the medifa 8000 is 50 Nm on the lengthwise axis and 80 Nm on the transverse axis.

The torque is acting on the rail as soon as an accessory is connected to a rail.

The own (dead) weight for a particular accessory being used can be found in the appendix of these operating instructions.  [Accessories, Page 87](#)

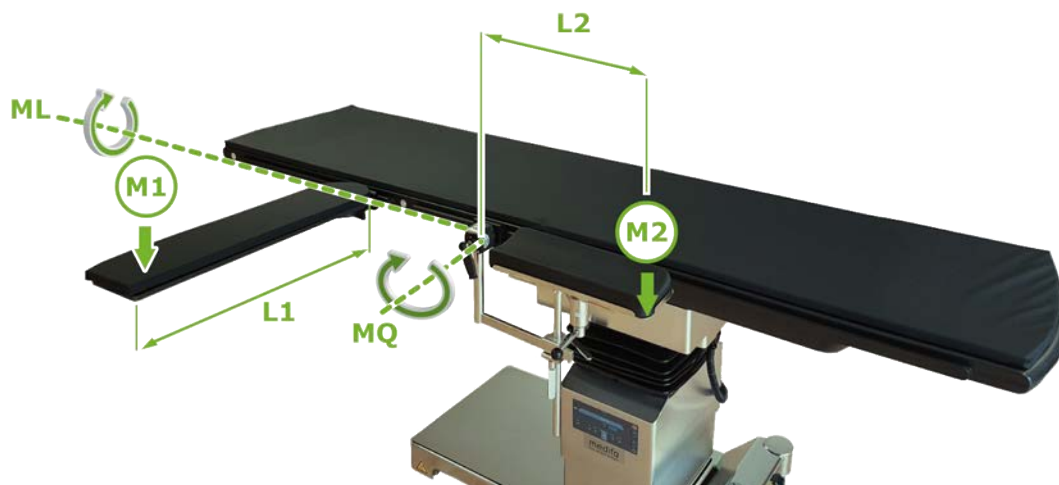


Figure 14: Torque on standard rails

[L1] = length 1

[M2] = mass 2

[L2] = length 2

[ML] = longitudinal torque

[M1] = mass 1

[MQ] = transverse torque

The torque acting on the standard rails can be approximately calculated using the following rule of thumb.

$$M(L \text{ or } Q) = m \times L \times 10$$

$$\text{Torque [Nm]} = \text{mass [kg]} \times \text{length [m]} \times 10 [\text{m/s}^2]$$

The weight of the patient's body part that will be resting on the accessory should be specified for mass (M).

5.13 Internal and external power supplies

The medifa 8000 has an electronic system that monitors both the charging mode (the external power supply) and the charging state of the lead-gel rechargeable batteries (the internal power supply).

5.13.1 External power supply

The external power supply for the medifa 8000 uses the mains power from a room (but not the surgery/ operating room). The medifa 8000 takes about 9 hours to fully charge. The charging current is reduced to a trickle charge current after the charging process is completed. The trickle charge current is harmless to the lead-gel batteries.

The top of the mains plug features a mechanism that protects it from being accidentally pulled out. Disconnect the mains plug from its socket by

1. pressing and holding down the red pull-out button.
2. Pull the mains plug out of the mains socket.



Figure 15: Power cable with extraction retainer

5.13.2 Lead-gel batteries

The internal power supply is provided by the two lead-gel batteries. [📄 Electrical connection data, Page 82](#)

Notices

- Make sure that the lead-gel batteries are undamaged and working properly.
- Use only the original lead-gel batteries; these are designed to prevent the accumulators from being damaged during charging.
- Avoid any mechanical damage to lead-gel batteries. Please contact medifa's customer service immediately if a battery is defective or damaged.

5.13.3 Battery fuse

The fuse for the lead-gel batteries is located in the socket on the right side. It protects the X-ray OP table by melting in the event of an electrical overload or short circuit, thus ensuring a safe disconnection from the power supply.



Figure 16: Battery fuse



Figure 17: Battery fuse



Observe the electrical specification above the compartment of the battery fuse.

 [Technical specifications, Page 82](#)

5.13.3.1 Removing and replacing the fuse

The medifa 8000 must be disconnected from the internal power supply before any maintenance or repair work on the medifa 8000 is carried out.

1. Switch off the main switch on the lifting column.
2. Unscrew the cap of the external fuse in order to disconnect the medifa 8000 from the internal power supply.
3. Remove the screw cap along with the fuse. The medifa 8000 is now disconnected from the internal power supply.
4. If you are replacing the fuse, insert a new fuse now. Make sure to use an identical fuse.
5. Screw the fuse back into place.
6. Turn the main switch on again.

5.14 Standard accessories

For information on commonly used accessories, refer to the documentation that accompanies each accessory.

Instructions for use of the following standard accessories are provided in this manual:

Swivelling armrest

-  **Attaching and removing the swivelling armrest (article number 81220), Page 69**

Turning/tilting armrest

-  **Attaching and removing the turn/tilt armrest (article number 81211), Page 70**

Side extension, padded cushion

-  **Attaching and removing the side extension (article number 81355), Page 74**

Side support

-  **Attaching and removing the side support / armrest (article number 81092), Page 75**

Padded cushion

-  **Attaching and removing the cushions, Page 76**

6 User controls

CAUTION

Risk of injury!

Become familiar with the keypad symbols and their functions. This helps you to avoid misinterpreting the function or incorrectly positioning the patient.

The medifa 8000 can be operated and controlled by the following components:

- Column keypad
- Wired control panel
- Optional infra-red handset
- Optional foot switch

6.1 Column keypad

The column keypad of the medifa 8000 is a control unit that is permanently mounted on the metal panel of the lifting column. The column keypad has backlit illumination. A simplified graphic of the medifa 8000 is shown on the column keypad. The upper section of the keypad shows the functions of the table top; the functions of the lifting column are shown below. The keys for the adjustment functions are indicated by arrows.

6.1.1 Operation and functionality of the keys

Press down on the key	Function is enabled
Release the key	Function is deactivated (thus immediately interrupting the procedure)

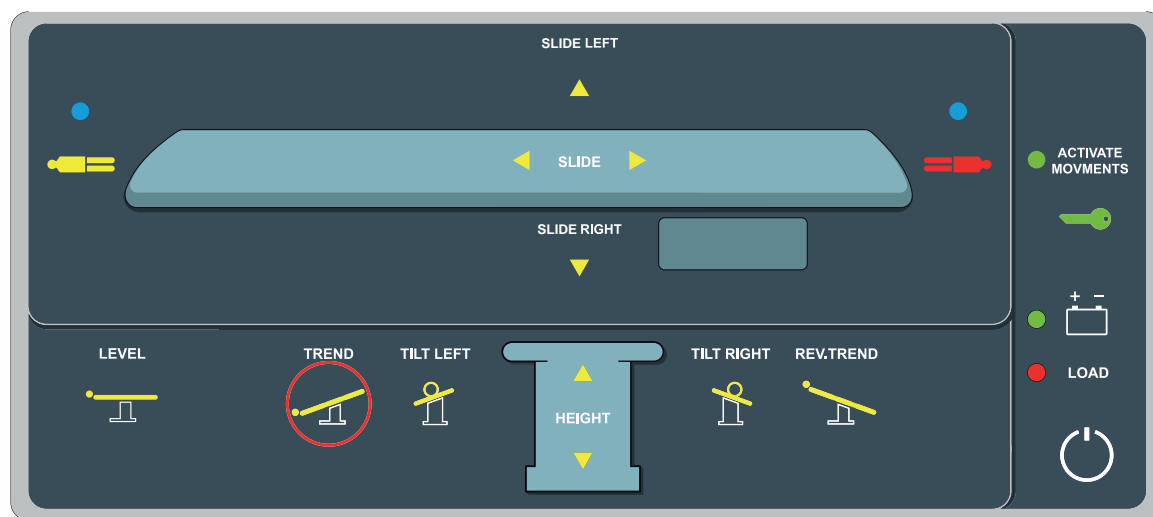
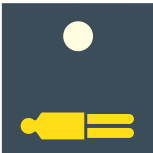

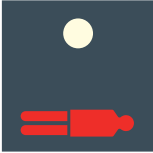






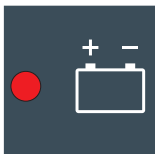

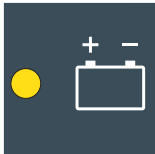
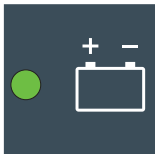
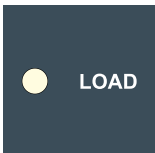
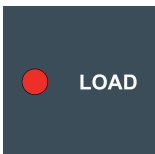





Figure 18: Column keypad

Symbol	Name	Function and operation
	Normal position disabled LED off	The normal position is disabled. The LED is off. The reverse position has been selected.
	Normal position enabled LED blue	The normal head position: The patient's head is on the head end of the table plate. Normal position, Page 61
	Reverse position disabled LED off	The reverse position is disabled. The LED is off. The normal position has been selected.
	Reverse position enabled LED blue	Foot position: The patient's head is at the foot end of the table plate. Reverse position, Page 62

Symbol	Name	Function and operation
	SLIDE ►	Adjust the table plate lengthwise in the foot direction. Lengthwise adjustments (SLIDE), Page 66
	SLIDE ◄	Adjust the table plate lengthwise in the head direction. Lengthwise adjustments (SLIDE), Page 66
	SLIDE LEFT	Sideways shift of the table top to the left. Sideways shift (SLIDE LEFT / SLIDE RIGHT), Page 68
	SLIDE RIGHT	Sideways shift of the table top to the right. Sideways shift (SLIDE LEFT / SLIDE RIGHT), Page 68
	LEVEL Home position	The table top moves automatically from a lateral and Trendelenburg / reverse Trendelenburg position to the horizontal position. The table top also moves from a lengthwise or sideways shift to the starting position. Home position (LEVEL), Page 66
	TREND Trendelenburg	Tilt the table top (at the transverse axis) into a lowered-head position. Trendelenburg/reverse Trendelenburg (TREND/ REV.TREND), Page 63
	REV.TREND Reverse Trendelenburg	Tilt the table top (at the transverse axis) into a lowered-feet position. Trendelenburg/reverse Trendelenburg (TREND/ REV.TREND), Page 63
	TILT LEFT Lateral left	Tilt the table top (at the lengthwise axis) to the left. Lateral position (TILT RIGHT / TILT LEFT), Page 65
	TILT RIGHT Lateral right	Tilt the table top (at the lengthwise axis) to the right. Lateral position (TILT RIGHT / TILT LEFT), Page 65

Symbol	Name	Function and operation
	HEIGHT Upwards height adjustment	Moves the entire table plate up.  HEIGHT, Page 62
	HEIGHT Downwards height adjustment	Moves the entire table plate down.  HEIGHT, Page 62
	Key lock on LED off	The controls of the column keypad are locked. This prevents a function from being accidentally carried out.
	Key lock off LED green	The keys are unlocked and enabled. The keypad will lock automatically 10 seconds after the last key press on the column keypad.
	Battery status: empty The battery is empty Red LED	< 20% capacity! Charge the battery immediately. Stop using the medifa 8000 and charge it.  Charging the medifa 8000, Page 52
	Battery status: normal Batteries are okay LED yellow	79 – 20% capacity: working mode. The batteries are ready for use.
	Battery status: full Battery full LED green	100 – 80% capacity: batteries are full. The medifa 8000 can be unplugged from the mains power supply and used in surgery.
	LOAD Battery-powered mode active LED off	No power cord is connected. Power is supplied by the lead-gel batteries.
	LOAD Battery is charging Red LED	Power cord is connected. The medifa 8000 is charging. The medifa 8000 may not be used in surgery while charging.  Charging the medifa 8000, Page 52
	On/Off switch on the column keypad	Switches the column keypad on and off.  Switching the medifa 8000 on and off, Page 49

6.2 Control panel

The control panel has backlit illumination. A simplified graphic of the medifa 8000 is shown on the control panel. All functions of the medifa 8000 can be executed from the control panel. They are displayed simultaneously on the display. The control panel has a colour display and a built-in joystick.

6.2.1 Operation and functionality of the keys

Press down on the key	Function is enabled
Release the key	Function is deactivated (thus immediately interrupting the procedure)

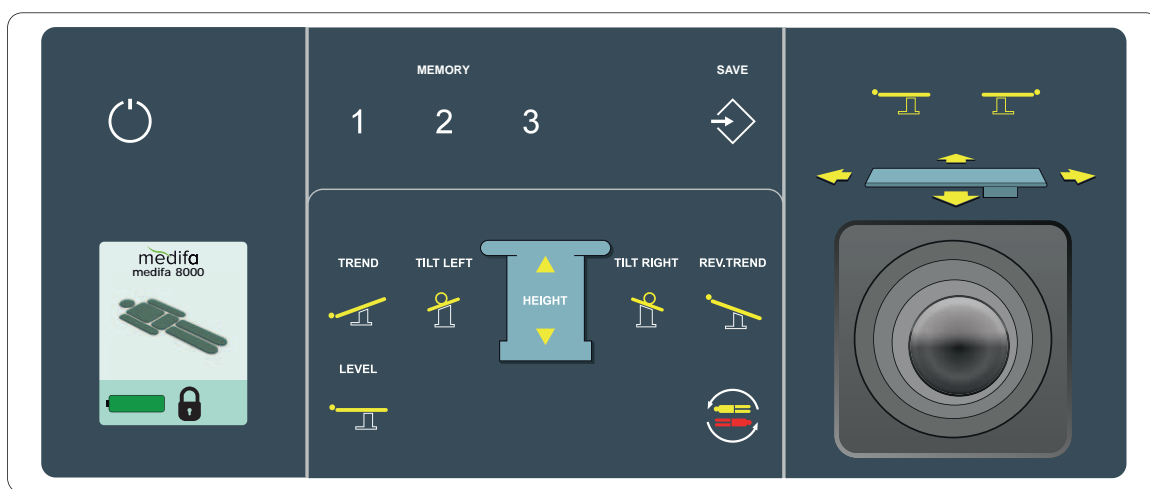


























Figure 19: Control panel

Key	Display	Name	Function and operation
		Battery is empty: red	Display. < 20% capacity! Charge the battery immediately. Stop using the medifa 8000 and charge it.  Recognizing the battery charging mode and charging status, Page 54
		Battery status normal: yellow	Display. 79 – 20% capacity: working mode. The batteries are ready for use.
		Battery is full: green	Display. 100 – 80% capacity: batteries are full. The medifa 8000 can be unplugged from the mains power supply and used in surgery.

Key	Display	Name	Function and operation
		Adjustments are locked.	Display. Further adjustments above 5 degrees for reverse Trendelenburg (REV.TREND) and sideways shifting (TILT RIGHT / LEFT) for sideways table adjustments are not possible for safety reasons.
		MEMORY 1 2 3	Select a saved table position. Selecting a saved table position (MEMORY), Page 41
		SAVE	Save the current table position permanently. Save the table positions (SAVE), Page 40
		TREND Trendelenburg	Tilt the table top (at the transverse axis) into a lowered-head position. Trendelenburg/reverse Trendelenburg (TREND/REV.TREND), Page 63
		REV.TREND Reverse Trendelenburg	Tilt the table top (at the transverse axis) into a lowered-feet position. Trendelenburg/reverse Trendelenburg (TREND/REV.TREND), Page 63
		TILT LEFT Lateral left	Tilt the table top (at the lengthwise axis) to the left. Lateral position (TILT RIGHT / TILT LEFT), Page 65
		TILT RIGHT Lateral right	Tilt the table top (at the lengthwise axis) to the right. Lateral position (TILT RIGHT / TILT LEFT), Page 65
		HEIGHT Upwards height adjustment	Moves the entire table top up. HEIGHT, Page 62
		HEIGHT Downwards height adjustment	Moves the entire table top down. This is the position for loading and unloading the patient, and for driving/moving the medifa 8000. HEIGHT, Page 62

Key	Display	Name	Function and operation
		LEVEL Home position	The table top moves automatically from a lateral and Trendelenburg / reverse Trendelenburg position to the horizontal position. The table top also moves from a lengthwise or sideways shift to the starting position. Home position (LEVEL), Page 66
		Normal position	The normal head position: The patient's head is at the head end of the table top. Normal position, Page 61
		Reverse position	The medifa 8000 is aligned in the reverse position: The patient's head is at the foot end of the table top. Reverse position, Page 62
		Joystick	Control lengthwise and sideways adjustments with the joystick. To move the table top, press and hold the trigger button on the joystick. First select the user's position!
		User position	Select user position on the left. Specifies the position of the user or the control panel in relation to the medifa 8000. This is important for the directional definition of the lengthwise and sideways shifting adjustments made with the joystick. Specifying the user position at the control panel, Page 41
		User position	Select user position on the right. Specifies the position of the user or the control panel in relation to the medifa 8000. This is important for the directional definition of the lengthwise and sideways shifting adjustments made with the joystick. Specifying the user position at the control panel, Page 41

Key	Display	Name	Function and operation
		Lengthwise adjustment	Adjust the table top lengthwise towards the feed, using the joystick.  Lengthwise adjustments (SLIDE), Page 66
		Lengthwise adjustment	Adjust the table top lengthwise towards the head, using the joystick.  Lengthwise adjustments (SLIDE), Page 66
		Sideways adjustment	Adjust the table top sideways to the left, using the joystick.  Sideways shift (SLIDE LEFT / SLIDE RIGHT), Page 68
		Sideways adjustment	Adjust the table top sideways to the right, using the joystick.  Sideways shift (SLIDE LEFT / SLIDE RIGHT), Page 68
		On/Off switch at the control panel	Switches the control panel on and off. Any function can be selected after the table has been switched on. The medifa 8000 is in standby mode after it is switched on.

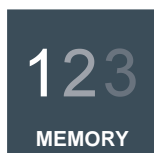
6.2.2 Save the table positions (SAVE)

Press the SAVE key on the control panel to save a target position for the medifa 8000. This position can later be reached using the Memory key.

1. Set the desired position.



2. Press and hold the SAVE key.



3. Press the desired memory key (1, 2 or 3) which can then be used to set that table position.
A beep will sound after the table position has been saved successfully.

ATTENTION

The Trendelenburg, reverse Trendelenburg and lateral (sideways) functions can only be saved within an adjustment range of up to 5 degrees. It is not possible to save positions which extend over 5 degrees. A beep will sound when the 5 degree limit is reached.

6.2.3 Selecting a saved table position (MEMORY)

Press the MEMORY 123 key on the control panel to select and move to a saved table position (a position previously stored with the SAVE key). Up to three positions can be saved.





1. Press the corresponding key 1, 2 or 3 to move the table to that saved position.

6.2.4 Specifying the user position at the control panel

The two keys for the user position are only available on the control panel. The shifting direction of the table top can be set using the user position key, so that it corresponds to the side of the medifa 8000 that the user is standing on.

The control panel can be mounted on the column keypad side or the side opposite the column keypad. After the table has been converted and before the control panel is used, you must check and, when necessary, update the user's position.

This configuration then applies only to the joystick at the control panel (for synchronizing the lengthwise and sideways shifting of the table top in the direction shown by the arrow).

Key	Display	Name	Function and operation
		User position	Select user position on the left.
		User position	Select user position on the right.

6.3 Infra-red handset (optional)

As on the column keypad, the handset shows a simplified schematic of the medifa 8000. The upper section of the display shows the Trendelenburg, lateral and height adjustment functions, as well as the MEMORY, SAVE and Reverse Position keys. The keys for the adjustment functions are indicated by arrows.

The direction of movement of the individual functions is shown by the key illustrations.

All functions of the medifa 8000 are fully available via the infra-red handset. The functions are shown simultaneously on the handset's display. The infra-red handset is backlit.

After 2 minutes, the handset goes into standby mode. The on/off switch is used to activate the handset. In order for a function to be carried out, the medifa 8000 must first be switched on at the control panel or column keypad.

6.3.1 Notices on the infra-red handset

WARNING

Explosion and fire hazard; danger of release of pollutants

- Make sure that the battery is undamaged and working properly.
- Use only the original charger. It ensures that the battery will not be damaged during charging.
- Only personnel that have been trained by medifa may replace the battery.

The following instructions must be observed to ensure that the infra-red handset functions safely and properly:

- The range of the infra-red handset is three metres.
- The infra-red sensors at the head and foot ends of the lifting column must not be obstructed by obstacles such as cloths or sheets.
- The signal path between the transmitter (infra-red handset) and the receivers (infra-red sensors on the lifting column) must always be unobstructed.
- The battery of the infra-red handset may only be charged with the corresponding mains charger.
- Notify medifa customer service if the infra-red handset battery is malfunctioning.

6.3.2 Charging station for the infra-red handset

The power supply for the mobile charging station of the infra-red handset has an LED display that can display 2 states.

Green = charging is in progress

Red = charging is completed



Figure 20: Status LED for the charging status, on the mains power plug

After the charging process is completed, the infra-red handset can be removed from the charging station. The charging station itself must then be disconnected from the mains power.



Figure 21: Charging station and power plug for the infra-red handset

6.3.3 Operation and functionality of the keys

Press down on the key	Function is enabled
Release the key	Function is deactivated (thus immediately interrupting the procedure)

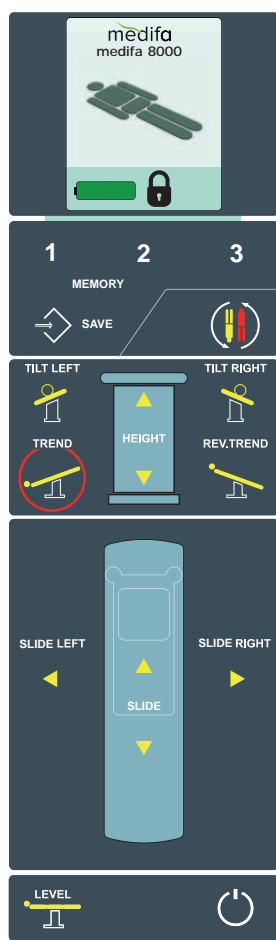













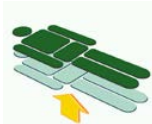





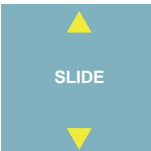







Figure 22: Infra-red handset

Infra-red handset	Display	Name	Function and operation
		Battery is empty: red	Display. < 20% capacity! Charge the battery immediately. Stop using the medifa 8000 and charge it. Recognizing the battery charging mode and charging status, Page 54
		Battery status normal: yellow	Display. 79 – 20% capacity: working mode. The batteries are ready for use.

Infra-red handset	Display	Name	Function and operation
		Battery is full: green	Display. 100 – 80% capacity: batteries are full. The medifa 8000 can be unplugged from the mains power supply and used in surgery.
		Adjustments are locked.	Display. Further adjustments above 5 degrees for reverse Trendelenburg (REV.TREND) and sideways shifting (TILT RIGHT / LEFT) for sideways table adjustments are not possible for safety reasons.
		MEMORY 1 2 3	Select a saved table position. Selecting a saved table position (MEMORY), Page 41
		SAVE	Save the current table position. Save the table positions (SAVE), Page 40
		Normal position	The normal head position: The patient's head is on the head end of the table plate. Normal position, Page 61
		Reverse position	The medifa 8000 is aligned in the reverse position: The patient's head is at the foot end of the table top. Reverse position, Page 62
		TILT LEFT Lateral left	Tilt the table top (at the lengthwise axis) to the left. Lateral position (TILT RIGHT / TILT LEFT), Page 65
		TILT RIGHT Lateral right	Tilt the table top (at the lengthwise axis) to the right. Lateral position (TILT RIGHT / TILT LEFT), Page 65
		TREND Trendelenburg	Tilt the table top (at the transverse axis) into a lowered-head position. Trendelenburg/reverse Trendelenburg (TREND/ REV.TREND), Page 63

Infra-red handset	Display	Name	Function and operation
		REV.TREND Reverse Trendelenburg	Tilt the table top (at the transverse axis) into a lowered-feet position. Trendelenburg/reverse Trendelenburg (TREND/REV.TREND), Page 63
		HEIGHT Upwards height adjustment	Moves the entire table plate up. HEIGHT, Page 62
		HEIGHT Downwards height adjustment	Moves the entire table plate down. This is the position for loading and unloading the patient, and for driving/moving the medifa 8000. HEIGHT, Page 62
		SLIDE LEFT	Sideways shift of the table top to the left. Sideways shift (SLIDE LEFT / SLIDE RIGHT), Page 68
		SLIDE RIGHT	Sideways shift of the table top to the right. Sideways shift (SLIDE LEFT / SLIDE RIGHT), Page 68
		SLIDE ▲	Adjust the table plate lengthwise in the foot direction. Lengthwise adjustments (SLIDE), Page 66
		SLIDE ▼	Adjust the table plate lengthwise in the head direction. Lengthwise adjustments (SLIDE), Page 66
		LEVEL Home position	The table top moves automatically from a lateral and Trendelenburg / reverse Trendelenburg position to the horizontal position. The table top also moves from a lengthwise or sideways shift to the starting position. Home position (LEVEL), Page 66

Infra-red handset	Display	Name	Function and operation
		On/off switch at the infra-red handset	<p>Switches the infra-red handset on or off.</p> <p>First, the main switch on the lifting column and the ON/OFF switch of the column keypad or the control panel must be pressed.</p> <p>Any function can be selected after the infra-red handset has been switched on.</p> <p>The handset goes into standby mode after 2 minutes.</p> <p>The on/off switch is used to activate the handset. In order for a function to be carried out, the medifa 8000 must first be switched on at the control panel or column keypad.</p>

6.4 Foot switch (optional)

The three basic functions (Trendelenburg, height adjustment and lateral position) can be quickly selected using the optional foot switch.

The foot switch is powered by the internal 5V power supply of the medifa 8000.



Figure 23: Foot switch with 3 pedals

6.4.1 Operation and functionality of the pedals

Pedal	Symbol	Function
Right		The basic functions can be selected from left to right and switched using the right pedal. Each pedal press advances one function further. The corresponding LED lights up blue.
		Height adjustment
		Trendelenburg
		Lateral adjustment
Left		Upwards height adjustment The medifa 8000 starts up and the function LED lights up.
		Reverse Trendelenburg The medifa 8000 moves to the reverse Trendelenburg position and the function LED lights up.
		Lateral left The medifa 8000 tilts laterally to the left and the function LED lights up.
Middle		Downwards height adjustment The medifa 8000 is lowered and the function LED lights up.
		Trendelenburg The medifa 8000 moves to the Trendelenburg position and the function LED lights up.
		Lateral right The medifa 8000 tilts laterally to the right and the function LED lights up.

7 Switching the medifa 8000 on and off

Safety instructions

- Do not crush or run over mains power cables or equipotential bonding cables. Do not use cables which have been damaged.
- Remove the cables before changing the location of the table. If there are any concerns about the safety of the mains or equipotential bonding cables, only use the internal power supply until the problematic cable is replaced.
- Only use the medifa 8000 on an electrically conductive floor and with an equipotential bonding cable connected!
- The connection point for the equipotential bonding cable at the medifa 8000 complies with IEC 60601-1.



Figure 24: Connections for the power cable and equipotential bonding cable

7.1 Establishing the equipotential bonding

CAUTION

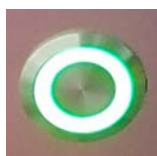
Risk of personal injury due to electric shock

When the medifa 8000 is connected to the equipotential bonding in the room, the risk of patient-related leakage currents is reduced. This also ensures equipotential bonding with all other connected medical devices.



1. Connect the equipotential bonding cable at the equipotential connection (male port) at the base of the medifa 8000.
2. Connect with the equipotential bonding in the room.

7.2 Switching on and reactivating the medifa 8000



1. Switch on the main switch at the lifting column.



2. Press the on/off switch on the control panel or on the column keypad.
After approx. 2 hours, all controls switch to standby mode. You need to press the ON/OFF switch at the column keypad or the control panel in order to reactivate the medifa 8000. These control units are directly connected to the medifa 8000 and can reactivate the medifa 8000 from standby mode.

Battery and charge indicators on the control panel and on the column keypad show that the medifa 8000 is charging when the power cable is connected.

7.3 Switching off the medifa 8000



1. Press the on/off switch on the control panel or on the column keypad. The lighting on the control units goes out.



2. Switch off the main switch on the lifting column.

There are certain situations where the medifa 8000 should be switched off using the main switch:

- Before a long downtime or pause
- Before every cleaning and disinfection

8 Charging the medifa 8000

DANGER

Danger of electrocution and loss of life!

- The medifa 8000 should be set up and positioned so that all plugs and device functions are easy to reach.
- The medifa 8000 may only be connected to a power supply network that uses a cable with a protective earth conductor. This eliminates the risk of electric shock.
Cables that are pinched or have insulation damage may no longer be used. Such cables must be replaced immediately.
- Cables should be replaced if there are any concerns that they are not in perfect condition. Use only the internal power supply until the problematic cable has been replaced.

DANGER

Danger of explosion!

The medifa 8000 is **NOT** approved for use in potentially explosive atmospheres (AP-M) while it is charging from the mains power supply.

Detergents, alcohol-based disinfectants or flammable anaesthetic mixtures, when mixed with air, oxygen-enriched air or nitrous oxide, may cause an explosion.

CAUTION

Danger of personal injury posed by stumbling hazard.

Do not roll or squeeze the power cord! Route the cable so that nobody can trip or fall over it!

WARNING

Risk of personal injury!

Do not make electric motor-drive adjustments of the medifa 8000 while disconnecting the power supply!

ATTENTION

Observe the mains voltage!

- The medifa 8000 must only be connected to the voltage specified on the ratings plate!
- Do not extend the mains cable. Do not use an extension cable! The permissible value of the patient leakage current will be exceeded if you use an extension! Only use the original power cord!
- Charge the medifa 8000 immediately after surgery, so that it is always ready for use.

The medifa 8000 must be fully charged before its initial use.

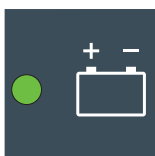


1. Plug the power cable into table's power socket.

2. Plug the power cable into a power outlet.



3. Turn on the main switch at the lifting column of the medifa 8000. Look at the column keypad to check if the medifa 8000 is charging (the LOAD LED should be illuminated red).



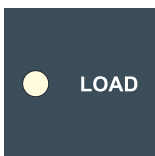
Approximately 9 seconds later, the LED on the column keypad next to the battery symbol lights up green.

After 2 hours of charging time, an approximate 30% charge will be reached: after 5 hours 80%, and after 9 hours 100% charging capacity.



The display of the control panel shows the green charging symbol during the entire charging process. There is no charging progress bar.

4. After the charging is finished, you can disconnect the medifa 8000 from the power supply by pulling the power cable socket from the room's power outlet.

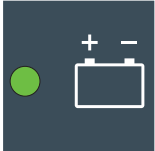

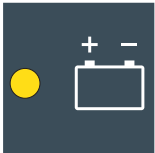

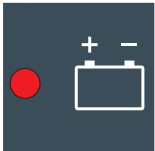





5. The LED next to LOAD on the column keypad then goes out.



6. Pull the plug of the power cable out of the socket at the base.

8.1 Recognizing the battery charging mode and charging status

Symbol for column keypad	Symbol on handset	Description
		80 – 100 % of charge capacity A fully charged battery ensures that the electrical functions can be used for about 8 hours.
		20 – 79 % of charge capacity
		0 – 20 % of charge capacity Charge the medifa 8000 immediately!
		The medifa 8000 is connected to a power supply. The batteries are being charged.
		The medifa 8000 is not connected to a power supply. The batteries are not charging.

CAUTION

Sparkling in the AP-M zone can endanger your patient.

If the battery status changes from yellow to red (under 20 % charge), the medifa 8000 must be taken immediately out of the surgery room and charged.

There would otherwise be a risk to the patient due to batteries that are not ready for use or that are no longer functional.

- Move the medifa 8000 immediately out of the surgery room and recharge it in a separate room.

8.2 Possible malfunctions and causes

Problems and faults	Cause	Remedy
The medifa 8000 cannot be switched on.	The lead-gel batteries of the medifa 8000 are completely discharged.	Connect the medifa 8000 to the power supply.
The medifa 8000 cannot be charged. The battery status indicator remains red.	The controller electronics, mains cable or input fuses (two 4 AT) are defective.	Notify the Technical Support department.
The medifa 8000 cannot be charged. The charge mode indicator does not light up.	<ul style="list-style-type: none"> ● The power input on the medifa 8000 is defective. ● Charger is defective. ● Battery fuse is defective. 	Notify the Technical Support department.

9 Transporting patients

CAUTION

There is a risk of personal injury when the medifa 8000 is tilted.

- The X-ray OP table can tip over when crossing over thresholds or bumps.
- The medifa 8000 may only be moved or driven using two persons and when it is at its lowest height!

CAUTION

There is a risk of personal injury from being crushed!

Be careful not to get your feet caught under the chassis when turning or moving the medifa 8000.

CAUTION

Danger of collision!

Be very careful when transporting the medifa 8000. Make sure that there are no collisions with bystanders or furniture!

- Make yourself familiar with the drive characteristics and handling of the table before you transport a patient for the first time.

9.1 Notices on patient transport

The following conditions must be met before the medifa 8000 is moved:



1. Move the medifa 8000 to its home position.



2. Remove or fold away any accessories from the medifa 8000.
3. Move the table top to its lowest position.
4. Disconnect the mains power plug and the equipotential bonding cable

ATTENTION

Damage to the cables

Before moving the medifa 8000, make sure you disconnect the equipotential bonding from the medifa 8000. When moving the medifa 8000, do not roll over or pinch the connecting/equipotential bonding cables!

9.2 Transporting patients



1. Release the brake.



2. Move the table manually. Avoid jerky movements of the table. Check your surroundings when turning.

3. Hold the table firmly while moving it.

4. Use your hands to bring the table to a stop.



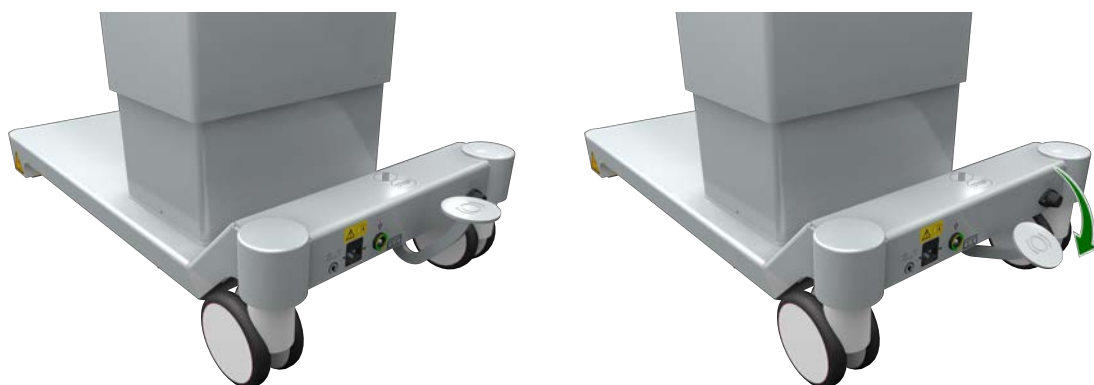
5. Then brake with the brake pedal.

10 Braking the medifa 8000 and releasing the brake

CAUTION

Danger for the patient

Do not use the brake while you are driving the medifa 8000! Stop the medifa 8000 first.



1. Bring the medifa 8000 to a halt.
2. Press the brake pedal down. The medifa 8000 is now braked.
3. Releasing the brake: Bring the brake pedal up to its uppermost position. The brake is now released.

11 Positioning the patient

WARNING

Patients are at risk if there is a malfunction!

The electrical functions must not be carried out continuously. One minute of electrical operation must be followed by 9 minutes of no electrical operations. Otherwise, an overload can occur and functions may fail.

The load limits must be strictly observed!

WARNING

Danger for the patient!

We cannot completely rule out the possibility of a malfunction of the medifa 8000 according to current state of the art technology. In this rare case, the motor-driven functions would no longer be available during the surgery.

If there is an electrical malfunction, it is possible to change the patient's position using suitable aids (e.g. by placing cushions under the patient) or by extricating the patient from the medifa 8000.

CAUTION

Danger of being crushed

There is a danger of being crushed by moving parts. Familiarize yourself with how the table works before using it. Danger of injury due to protruding parts.

CAUTION

Danger for the patient: monitor the patient's situation!

Monitor the patient's position on the medifa 8000 continuously to prevent any injuries.

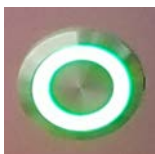
11.1 Preparing the medifa 8000 to hold the patient

WARNING

Any improper attachments pose a danger to the patient!

- Check all accessories to make sure that they are safely attached before using the medifa 8000! It is possible for loose components to slip out of position.
- Controls should only be loosened while they are being adjusted; they should then be re-tightened immediately!
- Check to make sure that all fasteners are secure!

1. The medifa 8000 must be disconnected from the external power supply. The lead-gel batteries must be fully charged.



2. Switch on the medifa 8000 using the main switch at the lifting column.



3. Turn on all control units.

4. Brake the medifa 8000 if it is not already braked.



5. Check the control unit to verify that the charge status indicator is green.

6. Prepare the medifa 8000 by attaching any accessories needed for the patient positioning.



7. Unlock the key lock on the column keypad (by pressing the ACTIVATE MOVEMENTS key) before using it. The LED above the lock key will turn green to indicate that the keypad is unlocked. You should then immediately make the desired adjustments, since there is only a ten-second window of time before the keypad locks.

11.2 Positioning patients

CAUTION

Danger for the patient!

Risk of personal injury! Patient extremities must not protrude over the table!






Components which are under improper loads can break off from the medifa 8000 or cause the medifa 8000 to tilt. The patient may only get on or off in the area of the lifting column!

Sequence for adjusting to a desired patient position:

1. First, use the height adjustment mechanism to set the desired working height.
2. Lift the patient on the medifa 8000 to the desired position; do not pull the patient over the cushions. The corresponding body parts of the patient should be lifted after each change in position. Any folds or shear forces must be eliminated.
3. Secure the patient before making the adjustment. Make sure they remain properly secured during the adjustment.
4. Select the user position.
5. Decide whether the patient should be in the normal position or the reverse position. The MEMORY key is a convenient way to save up to 3 positions in advance. You can then automatically recall them by simply pressing the MEMORY key to set the patient position.
6. For unsaved locations, proceed as follows: To adjust the medifa 8000, press the function key on the keypad until the desired position has been reached. The particular function stops when the key is released. Less than one minute touch time is needed.

11.3 Normal position

The normal position refers to when the head position is opposite the column.

Column keypad	Control panel	Infra-red handset	Description
	 	 	Normal position






11.4 Reverse position

For certain positions, it is possible to use the table plate in reverse, such that the patient's position is reversed on the table plate but the display on the column keypad no longer matches the head position of the patient.

Some table functions (such as Trendelenburg or Lateral) are then reversed. In this case, the patient's head position must be manually set to the corresponding head position using the REVERSE POSITION key. After this, the table movements will be carried out correctly. After the medifa 8000 is switched off and back on, the normal patient position is always activated and displayed on the column keypad.

For the reverse position, some accessory reconfiguration steps are required; these depend on your accessories.

1. Press the REVERSE POSITION key on the column keypad or control panel. The figure of the small red man appears in the display. The blue LED lights up on the column keypad next to the red patient symbol.

Column keypad	Control panel	Infra-red handset	Description
	 	 	Reverse position

11.5 HEIGHT

The height adjustment moves the entire table plate up or down.

Each time the patient is positioned, the medifa 8000 is brought to its lowest position and then moved to the working height with the patient lying down.

CAUTION

Danger for the patient!











The patient may only get on or off in the area of the lifting column!

 [Warning stickers on the medifa 8000, Page 20](#)

CAUTION

Danger for the patient!

Lowering the table plate may result in a collision with the chassis, floor or other objects that are under the table plate (which may be obscured by cloths or pads).

Column keypad	Control panel	Infra-red handset	Foot switch	Description
			 	Height adjustment up
			 	Height adjustment down

11.6 Trendelenburg/reverse Trendelenburg (TREND/REV.TREND)

In this position, the table plate is tilted by +/- 25 degrees along its transverse axis.

WARNING

If the sideways shift is outside of the home position, the reverse Trendelenburg adjustments are only permitted to 5 degrees.



The Trendelenburg and reverse Trendelenburg functions can be saved alone or in combination with another function using the SAVE key. However, this is only possible in an adjustment range of up to 5 degrees. It is no longer possible to save positions which extend over 5 degrees.

The 5 degree limit is signalled by a beep tone and a lock symbol shown on the display.







⚠ CAUTION

Danger to patients due to collision hazard!

When tilting the table plate (Trendelenburg/reverse Trendelenburg), collisions can occur with the lifting column, floor or other objects that are located under the table plate and may be covered by cloths or pads.

Always monitor all movements of the table plate to minimize this risk. Clear the area under the table plate and move the table plate to a higher position. Then adjust the table to the desired Trendelenburg or reverse Trendelenburg position.

There is a danger of jamming and injury when this Trendelenburg function is adjusted at the lowest table height.

Column keypad	Control panel	Infra-red handset	Foot switch	Description
				Trendelenburg
				Reverse Trendelenburg
				The reverse Trendelenburg cannot be adjusted more than 5° since the sideways shift mechanism is not in the home position.

11.7 Lateral position (TILT RIGHT / TILT LEFT)

For the lateral function, the table plate is tilted along its lengthwise axis to the left or right. The adjustment range is max. +/- 20 degrees.

Lateral adjustments are not permitted while driving the table!




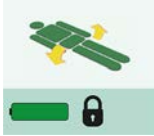
WARNING

There is a risk of personal injury when the medifa 8000 is tilted.

The medifa 8000 may only be used on surfaces that have no more than a 5 ° tilt.

If the sideways shift is outside of the home position, the lateral adjustments are only permitted to 5 degrees.

The lateral function can be saved alone or in combination with another function using the SAVE key. However, this is only possible in an adjustment range of up to 5 degrees. It is no longer possible to save positions which extend over 5 degrees. This 5 degree limit is signalled by a beep tone.

Column keypad	Control panel	Infra-red handset	Foot switch	Description
	 	 	 	Lateral left
				Lateral left cannot be adjusted over 5° since the sideways shift is not in the home position.
	 	 	 	Lateral right
				Lateral right cannot be adjusted more than 5° since the sideways shift is not in the home position.

11.8 Home position (LEVEL)






The home position is reached by automatically moving the medifa 8000 into a defined position.

1. Position the accessories so that there is no risk of collisions during the movement to the home position.
2. Lateral and Trendelenburg/reverse Trendelenburg adjustments are in the horizontal position.
3. The table plate is adjusted lengthwise and sideways to its middle position.

CAUTION

Danger for the patient!

Monitor the patient's situation!

Column keypad	Control panel	Infra-red handset	Description
	 	 	Home position

11.9 Lengthwise adjustments (SLIDE)

For the lengthwise adjustment, the table top is moved towards the foot or head end. When combined with the other positions, this lengthwise adjustment function increases the variability of the medifa 8000. The patient position can be set precisely, for example, by combining the Trendelenburg and lateral (up to 5 degree adjustment angle) adjustments.

The combined motion can be saved with the SAVE key and recalled with the MEMORY key (1, 2, 3). The lengthwise adjustment for the normal patient position is 300 mm.

 [Selecting a saved table position \(MEMORY\), Page 41](#)

 [Save the table positions \(SAVE\), Page 40](#)

CAUTION

Danger: risk of personal injury due to tilting!

If the lateral or reverse Trendelenburg adjustments are adjusted by more than 5 degrees, lengthwise shifting is no longer permitted.

⚠ WARNING









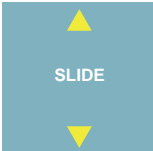

Danger: risk of personal injury due to tilting!

With a load of more than 200 kg, lengthwise displacement in the direction of the head while in the normal patient position is **NOT** allowed.

ATTENTION

Danger of collision!

Maintain sufficient distance to walls or other boundaries during the lengthwise movements to avoid collision.

Column keypad	Control panel	Infra-red handset	Description
	 	 	Lengthwise shifting at the head end The lock symbol appears on the display when lengthwise shifting is no longer possible on the head end.
	 	 	Lengthwise shifting at the foot end The lock symbol appears on the display when lengthwise shifting is no longer possible on the foot end.

11.10 Sideways shift (SLIDE LEFT / SLIDE RIGHT)

For the sideways shift, the table plate is moved to the left or right side. The patient position can be set precisely, for example, by combining the Trendelenburg and lateral (up to 5 degree adjustment angle) adjustments. The combined motion can be saved with the SAVE key and recalled with the MEMORY key (123). The sideways adjustment range is 180 mm.

 [Selecting a saved table position \(MEMORY\), Page 41](#)

 [Save the table positions \(SAVE\), Page 40](#)

CAUTION

Danger: risk of personal injury due to tilting!









If the lateral or reverse Trendelenburg adjustments are adjusted by more than 5 degrees, sideways shifting is no longer permitted.

If the sideways shift is outside of the home position, the lateral and reverse Trendelenburg adjustments are only permitted to 5 degrees.

ATTENTION

Danger of collision!

Maintain sufficient distance to walls or other boundaries during the sideways movements to avoid collision.

Column keypad	Control panel	Infra-red handset	Description
 SLIDE LEFT	 	 SLIDE LEFT	Sideways shift to left The lock symbol will appear on the display if it is no longer possible to shift to the left.
 SLIDE RIGHT	 	 SLIDE RIGHT	Sideways shift to right The lock symbol will appear on the display if it is no longer possible to shift to the right.

12 Configuring the medifa 8000

12.1 Information about the load limits

The load limits are calculated using the following formula: Total weight (safe work load) = patient weight + accessory weight

Refer to the  **Accessories, Page 87** chapter for the weights of individual accessories.



Load limits that lead to functional limitations are listed in the corresponding patient positioning sections.

12.2 Attaching and removing the swivelling armrest (article number 81220)

12.2.1 Attaching the swivelling armrest



1. Press the clip-on retainer together and hook it (from top to bottom) into the carbon rail at the desired position.



2. Release the clip-on retainer. The armrest is now firmly clamped in at the desired position.

12.2.2 Adjusting the swivelling armrest



1. Pull the release ball (located underneath) towards the user. Then turn the armrest to the desired position (it is adjustable up to 180 degrees).

12.2.3 Removing the swivelling armrest



1. Press the clip-on retainer together.
2. Remove the armrest upwards.

12.3 Attaching and removing the turn/tilt armrest (article number 81211)

12.3.1 Attaching the turn/tilt armrest

The mounting block consists of two sections: the black plastic clip for attaching to the carbon rail and the cube-shaped holder which supports the armrest.



1. Press the clip-on retainer together and hook it (from top to bottom) into the carbon rail at the desired position.



2. Release the clip-on retainer. The mounting block clamps firmly to the carbon rail.

12.3.2 Adjusting the turn/tilt armrest

Swivel the entire armrest out.



1. Turn the black handle to the left, thus loosening the screw.



2. Swing the rod into the desired position.

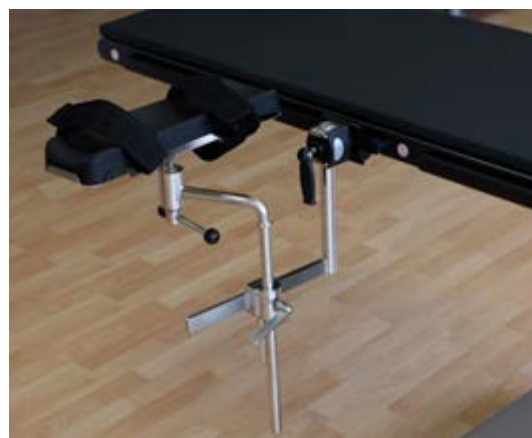


3. Tighten the screw on the black handle clockwise. The position is now fixed.

Adjusting the height of the armrest



1. Hold the rod at the bend and turn the locking lever to the left to loosen the screw.



2. Move the armrest to the desired height and secure its angular position by turning the rod.

Turning and tilting the armrest



1. Hold the armrest and loosen the grip slightly. Then, using the ball joint, tilt and turn the armrest to the desired position.

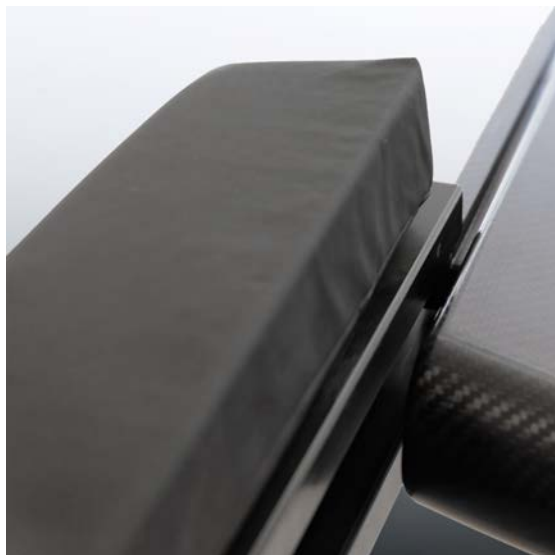
12.3.3 Removing the turn/tilt armrest



1. Press the clip-on retainer together. Then tilt it slightly upwards and remove it.
2. If the retainer should remain on the rail, the armrest can also be released using the rod's lever and pulled off upwards.

12.4 Attaching and removing the side extension (article number 81355)

Attaching the side extension



1. Hook the side extension into the desired position on the carbon rail from the top downwards.



2. Tighten the knurled screw.

Removing the side extension



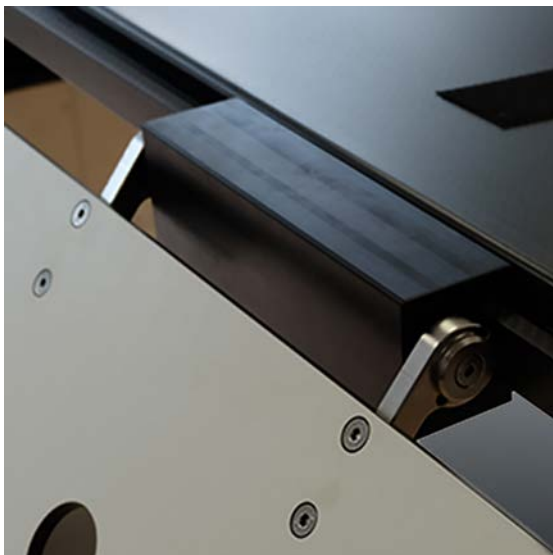
1. Loosen the knurled screw.



2. Tilt the side extension up slightly and remove it.

12.5 Attaching and removing the side support / armrest (article number 81092)

Attaching the side support



1. Hook the product into the desired position on the carbon rail from the top downwards.
2. Move it to the desired position on the carbon rail. Then tighten the knurled screw.

Adjusting the side support / armrest

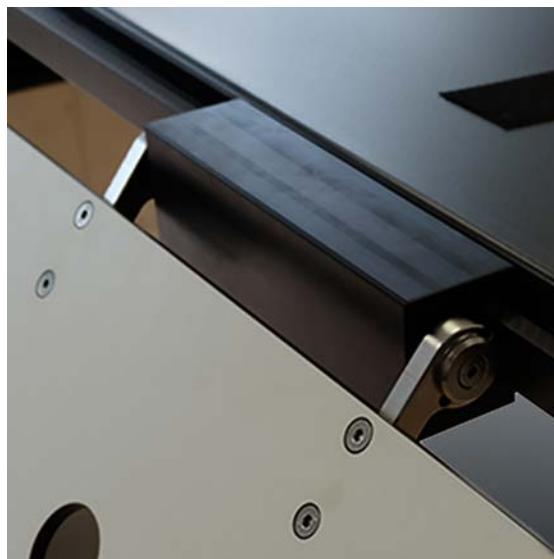


1. Hold onto the opening on the right side. Pull to the right (thus releasing the lock) and swing upwards.
2. Turn it 90 or 180 degrees upwards. Then push to the left until the lock engages.

Removing the side support / armrest



1. Loosen the knurled screw.



2. Tilt the product up slightly and remove it.

12.6 Attaching and removing the cushions

12.6.1 Attaching the cushions

ATTENTION

Safety instructions

- Only use original cushions from medifa!
- The patient should not be on the medifa 8000 when the cushions are not in place.
- Do not place sharp objects in or on the cushions.
- Do not attach adhesive tape.

- The cushion is attached to the table top using Velcro.
- For the attachment, the loop straps of the cushion must be dry and lie properly on the appropriate Velcro hook straps on the table top.



1. Place the cushion on the table top. Press it down over a large area and check that it is securely attached!






2. The cushion must be secured precisely on the table top.

12.6.2 Removing the cushions



1. Grab the edge of the cushion under one edge and pull it upwards.

13 Preparing the medifa 8000 after it has been used

1. Remove any accessories that have been attached.  [Configuring the medifa 8000, Page 69](#)
2. Clean and disinfect the accessories properly. Please follow the operating instructions for the accessories.
3. Clean and disinfect the medifa 8000.  [Cleaning and disinfecting the medifa 8000, Page 78](#)
4. Charge the lead-gel batteries.  [Charging the medifa 8000, Page 52](#)

13.1 Cleaning and disinfecting the medifa 8000

CAUTION

Risk of personal injury!

- Only cleaned and disinfected equipment and devices should be handed over to service technicians for maintenance and repair work!
- Replace any cushioning that no longer complies with the relevant hygiene and infection requirements!
- Always disconnect the external power supply before starting any maintenance or cleaning on the medifa 8000!
- Turn off the main switch!
- Make sure that no motor movements can occur!

ATTENTION

Danger: incorrect maintenance may damage property!

The medifa 8000 is not suitable for an automated cleaning process!

Do not use a high-pressure cleaner! Due to the high pressure of the water jet, liquid could penetrate through gaps or joints and damage the device (through corrosion).

Improper cleaning products can damage the surface!

When cleaning the device, do not use scouring cleansers or detergents and disinfectants containing halide or peracetic acid.

For the plastic parts and cushions, do not use alcoholic or solvent-based (flammable) cleaning/ disinfecting agents!

The cleaning products for the cleaning and disinfection must comply with the applicable national regulations for the medical sector and/or be listed by the German Society for Hygiene and Microbiology / Association for Applied Hygiene.

Follow the hospital's hygiene regulations!

Clean contaminated products immediately! The cleaning/disinfection is limited to a regular wiping (not dipping!) using the appropriate substance.

CAUTION

Risk of personal injury!

If incorrect cleaning products are used, the anti-static properties of the cushion (according to IEC 60601-1: DIN EN 60601-1) will be lost. Only use the specified cleaning agents and disinfectants!

13.1.1 Cleaning

- ✓ For cleaning stainless steel and plastic parts, use a pH-neutral or slightly alkaline all-purpose cleaner with surfactants for cleaning-active components.
- ✓ If parts are heavily contaminated, use concentrated cleaner and then wipe with clear water.
- 1. For the cleaning, move the medifa 8000 to its highest table position and wipe with a damp cloth.
- 2. In this position, the panels of the lifting column can be pulled apart so they are easy to clean. Remove the cushions in order to clean the bottom of the cushions and the table top!

13.1.2 Disinfecting

- ✓ For disinfecting, follow the instructions of the disinfectant manufacturer!
- 1. Surface disinfectants based on alcohol or aldehyde are suitable for disinfecting the stainless steel parts. For the plastic parts and cushions, only use aldehyde-based surface disinfectants. Alcohol-based agents can damage the surface.

13.1.3 Drying

- 1. After cleaning and disinfecting, remove any excess moisture (for example, drops on the bottom edge of the table top) using a dry cloth.
- 2. The cleaned and disinfected cushions should only be attached to the medifa 8000 using dry Velcro straps!

13.1.4 Disposal

Dispose of all cleaning and disinfectant residues in a proper and environmentally friendly manner!

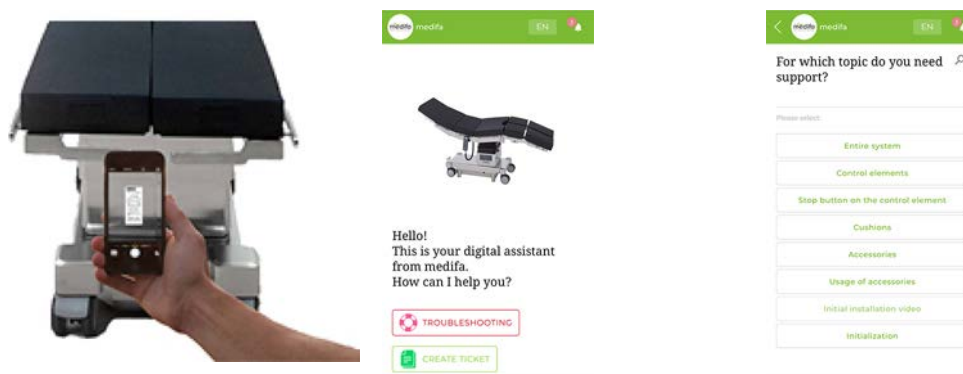
14 Troubleshooting and service – the we care.Code

A we care.Code is attached to this product to assist you with problems and service requests. The sticker is located next to the ratings plate on the lifting column.

This QR code can be scanned using your mobile phone camera or a QR Code app. By scanning the QR code containing the product type and serial number, you gain access to a digital self-service with step-by-step instructions for simple problems.

You can also use the QR code to access product documentation (user manual, etc.) and send service requests directly to medifa.

If your mobile phone's configured language is not yet available in the we care.Code system, English will be displayed. You can switch the language to English or German by tapping EN or DE.



1. Scan in the QR code. Your product will be displayed on the start page. You can scroll down to view more information about your product and to download supporting documents.
2. Tap on "Troubleshooting".
3. Select the subject for which you require assistance.

After you have selected the problem related to your product, you will receive step-by-step instructions on how to fix it yourself.

You may submit a service request directly to medifa if you cannot solve the problem by yourself.



1. Tap on the < symbol in the header bar.
2. From the Home screen, tap on "CREATE TICKET".
3. A window will open showing your existing tickets (if any) for this product. To create a new ticket, tap on the plus symbol (+) in the green circle. After submitting the ticket, you may optionally enter your e-mail address so that you can be informed about updates to the ticket.



4. Otherwise, you will need to re-scan the QR Code at a later date.
5. Tap on "CREATE TICKET" to view the feedback on the ticket you created.
6. A window will open showing your existing tickets for this product.

15 Technical specifications

15.1 Environmental conditions for the operation, storage and transport

Temperature	-20 °C to 50°C (storage/transport)
	+10 °C to +40 °C (operation)
Relative humidity	10% to 95% (storage/transport)
	20% to 80% (operation)
Air pressure	70 kPa to 106 kPa (storage/transport)
	80 kPa to 106 kPa (operation)

15.2 Dimensions, weights and load limits

Dimensions of the table plate	Length (with the standard rails): 2335 mm
	Width (with standard rails): 540 mm
Height without cushion	750 mm to approx. 1110 mm
Height of cushions	20 mm
Own weight	250 kg
Maximum table load	250 kg, when specified conditions are maintained
Load on rails	Lengthwise axis: 50 Nm
	Transverse axis: 80 Nm

15.3 Electrical connection data

Internal power supply	2 rechargeable batteries (lead-gel) 12 V / 18 Ah
External power supply	100 V to 240 V / 50 Hz to 60 Hz
Power consumption	Max. 300 VA
Mains plug	Regional plug type
Fuse	2 x 4 AT
Battery fuse type	ASO 15 A

Battery for the infra-red handset

Capacity	1400 mAh
Rated voltage	3.7 V
Max. charging voltage	4.3 V


Charger for the infra-red handset

Power	6 W
Input voltage	90 – 264 V
Frequency	50 – 60 Hz
Charging current	1.6 A
Charging voltage	4.3 V

15.4 Adjustment ranges

Stroke	360 mm
Lengthwise adjustment	300 mm
Sideways adjustment	180 mm
Trendelenburg	-25° to +25°
Laterally	-20° to +20°

15.5 Classification

Protection class	I
Degree of protection against electric shock	Type B, according to IEC 60601-1
Degree of protection against penetration of water and foreign bodies	IP X4 (splash water protection)
Operating mode	Continuous duty with intermittent load (CDIL) 1 minute function execution followed by a 9 minute break without functioning
Explosion protection	Battery operations: Class AP Mains power supply: The medifa 8000 is not approved for use in potentially explosive atmospheres (AP-M)!  Risk of explosion, Page 14

15.6 EMC information

Intended environment for usage

- Professional health care facilities

Note: The transmission characteristics of this device allow it to be used in industrial environments and in hospitals. When used in a residential area, this device may not provide adequate interference protection for radio services. If necessary, the user must take corrective measures such as the reconfiguration of the device.

Key features of the medifa 8000:

- The medifa 8000 may not perform any unintentional movements under the influence of interference.



WARNING

Impairments caused by electromagnetic radiation

- This medical device must not be used directly next to other devices. If necessary, the device should be observed to verify its proper operation in the particular arrangement.
- The use of accessories, transformers, and cables other than those specified by medifa for this device may result in increased electromagnetic emissions or reduced electromagnetic immunity of the device. This can result in improper operation.
- Portable RF communications equipment (radios, including their accessories such as antenna cables and external antennas) should not be used closer than 30 cm (12 inches) from the medifa 8000.

16 Appendix

16.1 Delivery, unpacking and setting up

16.1.1 Delivery

The medifa 8000 is delivered on a pallet in a box. The ordered parts and accessories are individually packed on the pallet or are already attached to the medifa 8000.

Dimensions of the packaging:

Length	approx. 2500 mm
Width	800 mm
Height	800 mm


Mass

medifa 8000 without accessories	250 kg
Packaging	140 kg

Plus weight of additional accessories.

ATTENTION

Danger of property damage!

The packaging is not weatherproof! Observe the instructions for storage.  [Technical specifications, Page 82](#)

16.1.2 Unpacking and setting up

CAUTION

Danger: risk of personal injury when the medifa 8000 is tilted!

- Use at least two people to carefully move the medifa 8000 from the wooden carton onto a flat place!

ATTENTION

Danger of damage to the electronics due to condensation!

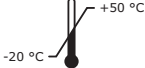













During transport, there is a risk of condensation which could damage electronic components.

We recommend that you wait for 12 hours after delivery so that any condensation can dry out. After this time, you may connect the medifa 8000 to an external power source and turn it on.

Follow the separate packaging instructions for unpacking and set up.

16.1.3 Symbols on the transport packaging

There are several handling symbols on the transport packaging.

Symbol	Description
	Temperature range for storage and transport: -20 °C to 50 °C.
	Relative humidity for storage and transport: 10% to 95%.
	Air pressure for storage and transport: 70 kPa to 106 kPa.
	Protect the transport packaging against moisture.
	Read the operating instructions.
	Protect from sunlight.
	Date of manufacture
	Follow the instructions for disposal.
	Data matrix code (UDI carrier)
	Medical device
	Date of manufacture
	Article number
	Serial number
	This device is declared compliant with Regulation 2017/745

16.2 Disposal

The medifa 8000, accessories and packaging must be recycled in an environmentally friendly manner. The disposal of individual parts must also be carried out in an environmentally friendly manner (i.e. according to the relevant legal regulations)!

For more information about the proper disposal of used devices, please contact medifa Technical Support, your local dealer or the appropriate national authority.

The company medifa will take back old devices, defective devices, or products no longer in use. Contact medifa Technical Support for more details.

If the medifa 8000 will be taken out of service (decommissioned), the lead-gel batteries must be removed from the device by a medifa service technician or by a person authorized by medifa medifa 8000.

Send any removed unusable batteries, in suitable packaging, to medifa Technical Support.

Attention: the return package must be declared as dangerous goods according to Class 9/UN3480!

The company medifa will then ensure that the batteries are disposed of in an environmentally manner.

16.3 When the device has not been used for a long time

When not in use, switch off the medifa 8000 at the main switch.

If the medifa 8000 has not been used for a long time, the batteries may not be fully charged. To prevent a battery malfunction or outage, the batteries must be charged each month during periods when the medifa 8000 is not being used.

Clean and disinfect the medifa 8000 before a period of long disuse.

Cover the cushions or cover the entire medifa 8000 in a foil (the cover material must be permeable to air).

The medifa 8000 must be stored in a dry place.

16.4 Accessories

Product name	Article number	Weight (kg)	Permissible load (kg)
Foot switch	804060	2.4	-
Infra-red handset	804070	0.5 (without charging station)	-
Infra-red handset console	61575	0.5	-
Fastening clamp	81511	0.6	-
Anaesthesia bracket	81750	1.5	8
Arm restraint	61755	0.2	8
Flexible anaesthetic bow	81751	2.5	5
Hand straps	81406	0.3	-
IV pole	81805	1.8	1.5 kg per hook

Product name	Article number	Weight (kg)	Permissible load (kg)
Head ring	61115	1	-
Body and leg strap	81405	0.2	-
Head support cushion	61147	0.1	-
Articulated arm with head cap	81110	5	10
DORO skull pin for adults	811073	0.25	-
DORO skull pin for children	811074	0.14	-
DORO skull clamp set	811069	3.2	-
DORO head cap set	811076	3.2	-
Spine bridge	81900	15.6	Max. patient weight: 227
Back disc surgery pillow	61900	1.3	-
Armrest	81220_1	2	8
Armrest	81220_2	2.2	8
Armrest	81220_3	2.4	8
Armrest	81217	4.2	10
Armrest	81211	5.8	10
Arm protection	81345	1	-
Side support / armrest	81092	2.4	10
Arm/hand surgery table	81230	10	10
Bracket	81361	2.2	-
Body support	61361_1	0.5	-
Body support	61361_2	0.7	-
Body support	61361_3	0.7	-
Body support	61361_4	1.2	-
Spreading segments	81355_1	4.8	10
Guide rail adapter	81560	0.3	-
Protection from scattered rays	81040	5.2	-
Protection from scattered rays, with attachment	81045	10	-

Product name	Article number	Weight (kg)	Permissible load (kg)
Padded cushion 20 mm	800020	1.8	-
Padded cushion 40 mm	800040	2.4	-
Padded cushion 60 mm	800060	3.6	-
Head pillow made of silicone gel for adults	61910	3	-
Head pillow made of silicone gel for children	61911	2	-
Small half roller, made of silicone gel	61920	1.6	-
Medium half roller, made of silicone gel	61921	2.2	-
Half roller made of silicone gel	61922	3	-
Heel cushion made of silicone gel	61940	1.8	-



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